

X13A/B SAFETY CHECKLIST			BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
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Operating Beamline (Choose One)

- ☐ X13A
- ☐ X13B X13B Mode: ☐ White ☐ Mono

- ☐ 1. Valid Padlock Index and log, no padlocks open (Check yellow board on X13B hutch)

On X12 side of beamline:

- ☐ 2. Exclusion Zone #1 (EZ1) and Bremsstrahlung shield (BS #1) in place and secure, as per photo.
- ☐ 3. Mirror Tank shielded and (3) view ports secured with screwed covers as per photo.
- ☐ 4. Bremsstrahlung shield (BS #2) in place and banded as per photo
- ☐ 5. Scatter shield on valves V2A and V2B as per photo.

On X14 side of beamline:

- ☐ 6. Beam stop (Cu block at X13B) downstream of BS#2, banded and secure as per photo.
- ☐ 7. Scatter shield upstream of BS #3 as per photo.
- ☐ 8. Bremsstrahlung shield (BS #3) in place and banded as per photo.
- ☐ 9. Lead glass on X13B monochromator tank view port
- ☐ 10. Bremsstrahlung shield (BS #4) in place and banded as per photo
- ☐ 11. Bremsstrahlung shield (BS #5) in place and banded as per photo
- ☐ 12. Bremsstrahlung shield (BS #6) in place and banded inside X13B hutch as per photo

User System Checks

On X12 side of beamline:

- ☐ A. Valve V1 open.
- ☐ B. Valve V2A and V2B open
- ☐ C. Water cooling for X13A entrance slit, proteus impeller spinning
- ☐ D. Valve V3A open (for X13A Operation)
- ☐ E. Valve V4A open (for X13A Operation)

On X14 side of beamline:

- ☐ F. Water cooling for Mask and aperture in X13A Mirror tank, proteus impeller spinning
- ☐ G. Water cooling for X13A Mirror, proteus impeller spinning
- ☐ H. Water cooling for Be Window, slit filter assembly, copper backstop, and photon shutter; proteus impeller spinning

For X13B White Beam Mode Operation Only:

- ☐ I. Valve V3B in opened position
- ☐ J. Water cooling for hutch Be Window, proteus impeller spinning.
- ☐ K. Helium gas flow between Be Windows

Checked by: _____ Date: _____

OPCO: _____ Date: _____